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## Patent Abstracts of Japan

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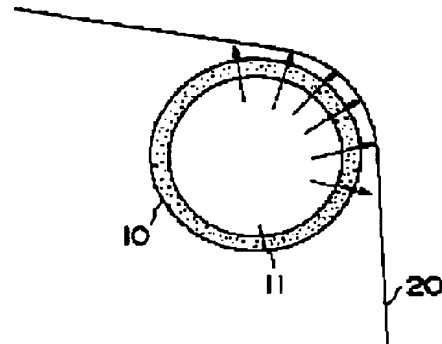
APPLICATION DATE : 10-08-93  
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APPLICANT : TOYO INK MFG CO LTD;

INVENTOR : TAKENAKA TAKAMASA;

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TITLE : CONVERTING METHOD FOR  
TRAVELING WEB



ABSTRACT : PURPOSE: To carry out conversion of a web and drying at the same time without generating any dirt on a printed matter by suspending a sintered metal roller bar provided with multiple micro holes in the perpendicular direction to a traveling web and blowing out heated air from the micro holes.

CONSTITUTION: In a roll bar 10, which is formed into a cylinder in which micro holes with 10-30 $\mu$ m of diameters are distributed on its surface all around, a hollow part 11 of the cylinder is closed at one end while heated air is supplied to the other end to be blown out from the micro holes. As the roll bar made of sintered metal and provided with multiple micro holes is used, an air membrane is formed on the surface of the roll bar 10, the roll bar 10 is prevented from being brought into contact with a web 20, and the traveling direction of the web 20 can be converted. Therefore, no excess tension is applied to the web 20, so that no wrinkle is generated. On the other hand, ink can be dried efficiently by blowing of the heated air.

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